

Figure 1

GLP-1 (7-37)

HAEGTFTSDV SSYLEGQAAK EFLAWLVKGR G-NH₂

Exendin-3

HSDGTFTSDL SKQMEEEAVR LFIWLKNGG PSSGAPPPS-NH₂

Exendin-4

HGEGTFTSDL SKQMEEEAVR LFIWLKNGG PSSGAPPPS-NH₂

Exendin[9-39]

DL SKQMEEEAVR LFIWLKNGG PSSGAPPPS-NH₂

FIGURE 2

Gastric emptying with exendins

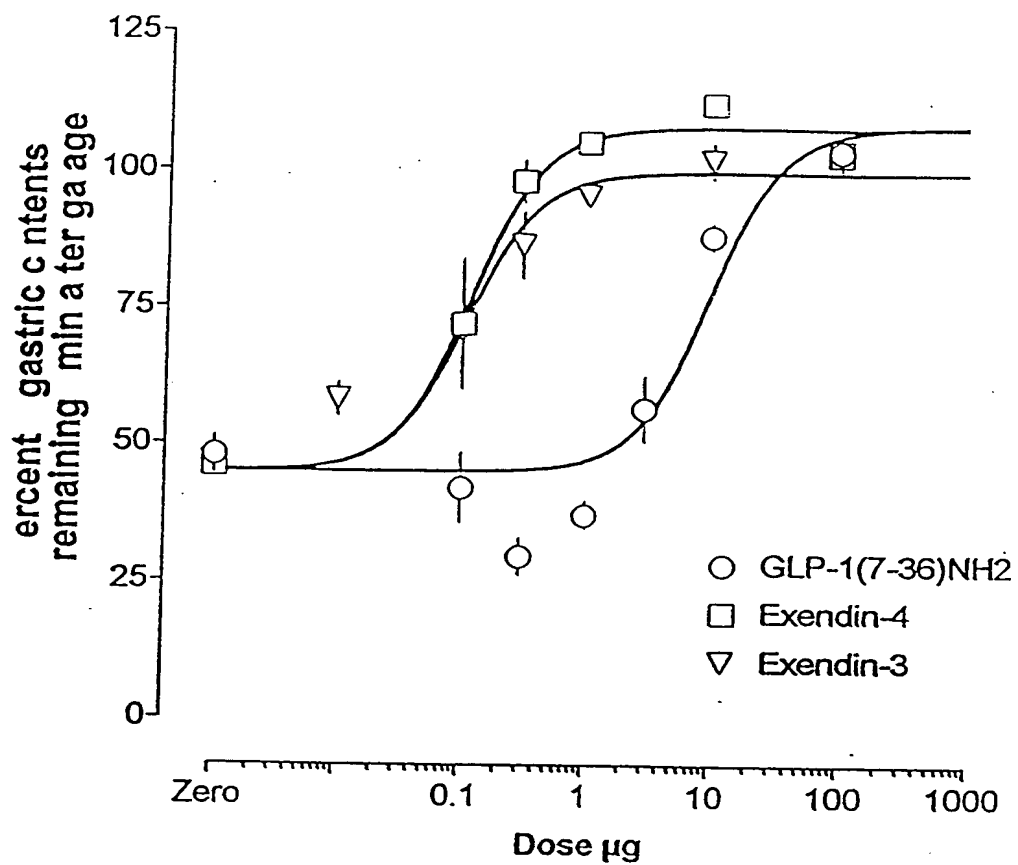


Figure 3

Gastric Emptying Exendin-4 and analogs

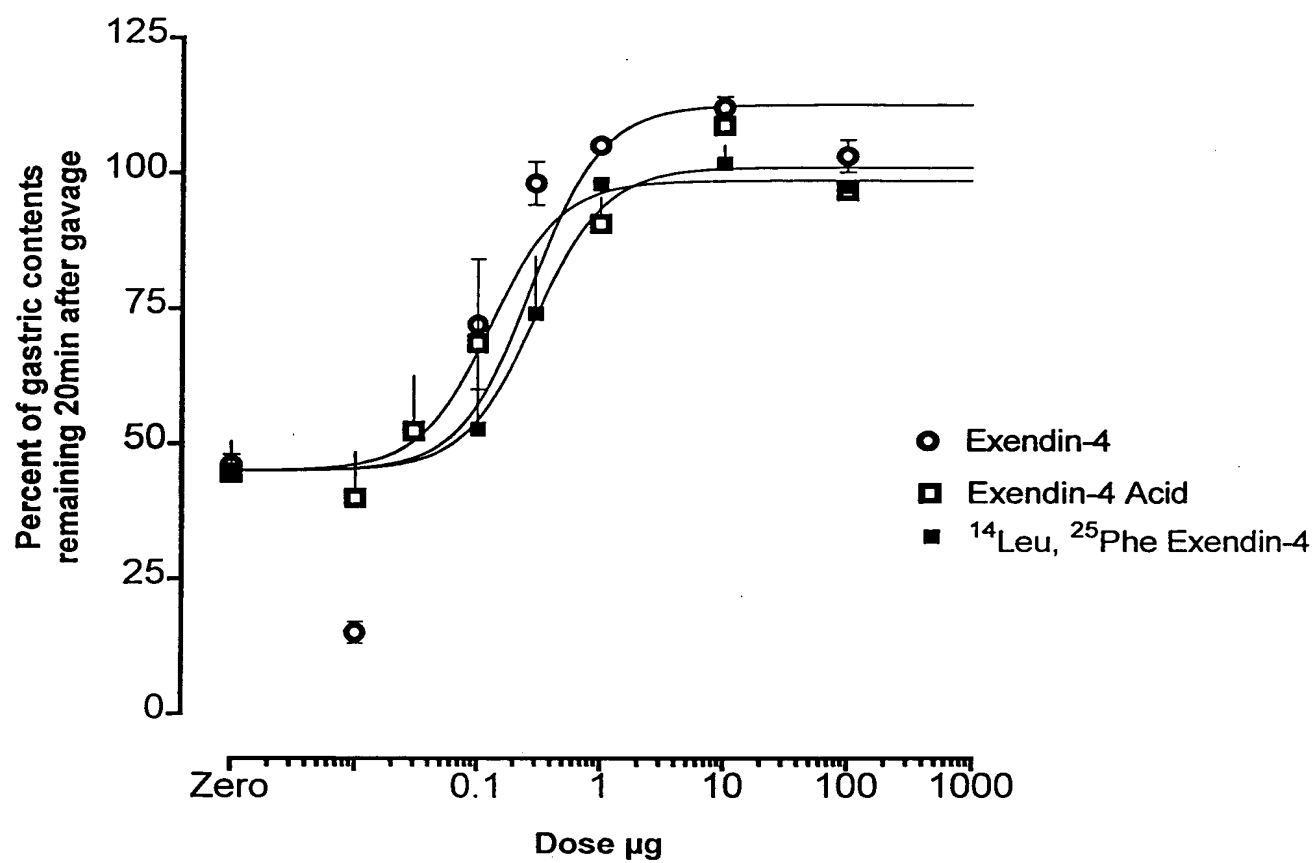


Figure 4

**Exendin 9-39 given sc did not
antagonize the effect of Exendin-4 on
gastric emptying**

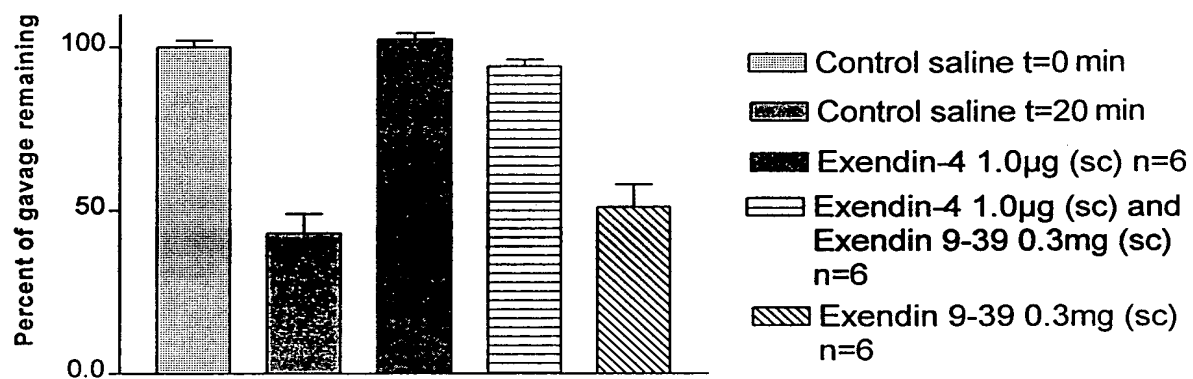


Figure 5

Exendin 9-39 given iv did not antagonize
the effect of Exendin-4 on gastric
emptying

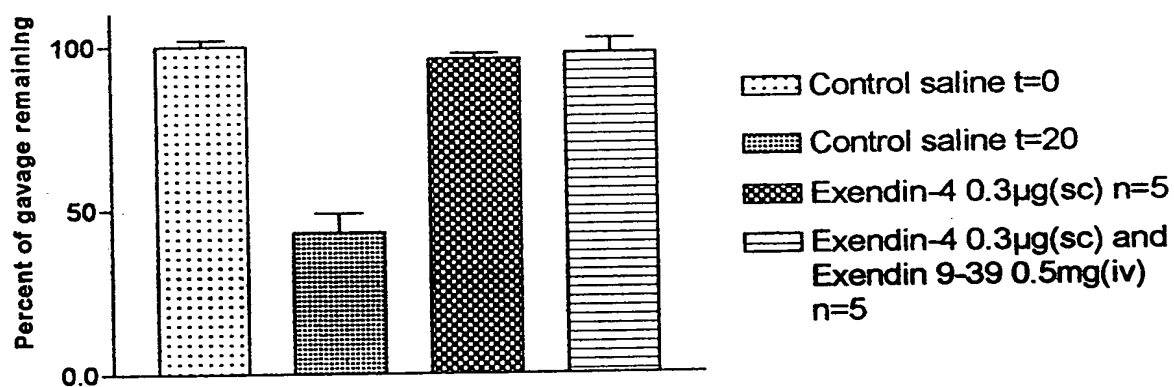


Figure 6

Exendin 9-39 given sc did not
antagonize the effect of GLP-1 on
gastric emptying

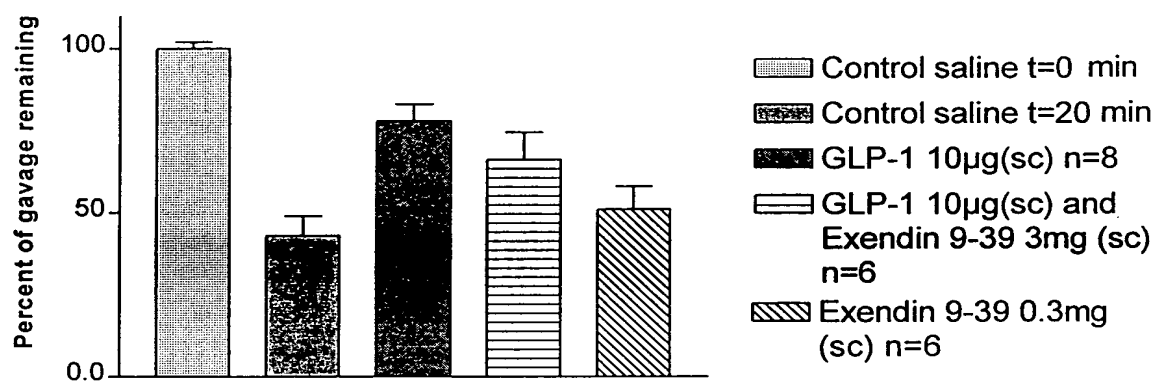
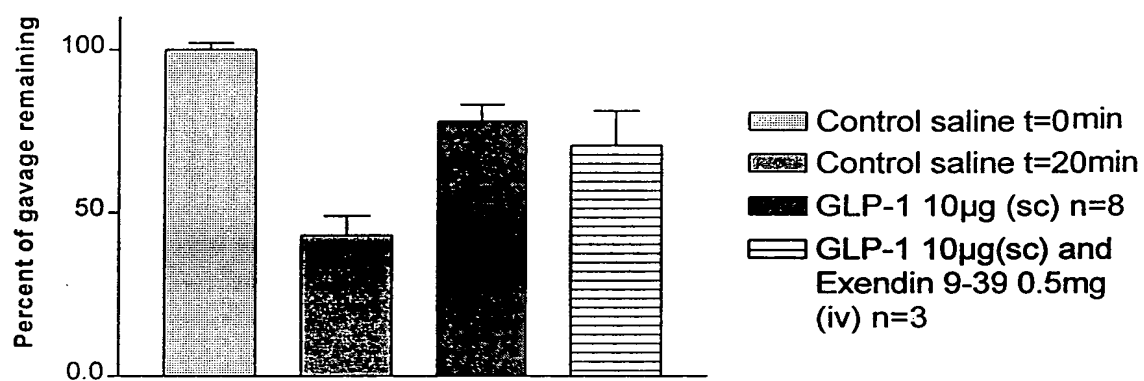


Figure 7

Exendin 9-39 given iv did not antagonize
the effect of GLP-1 on gastric emptying



1

Compound (Seq. ID. No.)	Xaa ₁	Xaa ₂	Xaa ₃	Xaa ₄	Xaa ₅	Xaa ₆	Xaa ₇	Xaa ₈	Xaa ₉	Xaa ₁₀	Xaa ₁₁	Xaa ₁₂	Xaa ₁₃	Xaa ₁₄	Xaa ₁₅	Xaa ₁₆	Xaa ₁₇	Xaa ₁₈	2
1 [5]	His	Gly	Glu	Phe	Thr	Ser	Asp	Leu	Leu	Phe	Ile	Glu	Phe	Pro	Pro	Pro	Ser	NH ₂	
2 [6]	His	Gly	Glu	Phe	Thr	Ser	Asp	Leu	Leu	Phe	Ile	Glu	Trp	Pro	Pro	Pro	Ser	NH ₂	
3 [7]	His	Gly	Glu	phe	Thr	Ser	Asp	Leu	Met	Phe	Ile	Glu	Phe	Pro	Pro	Pro	Ser	NH ₂	
4 [8]	Tyr	Gly	Glu	Phe	Thr	Ser	Asp	Leu	Met	Phe	Ile	Glu	Trp	Pro	Pro	Pro	Ser		
5 [9]	His	Gly	Glu	Phe	Thr	Ser	Asp	Leu	Met	Phe	Ile	Glu	Trp	Pro	Pro	Pro	Tyr	NH ₂	
6 [10]	His	Gly	Asp	Phe	Thr	Ser	Asp	Leu	Met	Phe	Ile	Glu	Trp	Pro	Pro	Pro	Ser	NH ₂	
7 [11]	His	Gly	Glu	naph	Thr	Ser	Asp	Leu	Met	Phe	Ile	Glu	Trp	Pro	Pro	Pro	Ser	NH ₂	
8 [12]	His	Gly	Glu	Phe	Ser	Ser	Asp	Leu	Met	Phe	Ile	Glu	Trp	Pro	Pro	Pro	Ser	NH ₂	
9 [13]	His	Gly	Glu	Phe	Ser	Ser	Asp	Leu	Met	Phe	Ile	Glu	Trp	Pro	Pro	Pro	Ser	NH ₂	
10 [14]	His	Gly	Glu	Phe	Thr	Thr	Asp	Leu	Met	Phe	Ile	Glu	Trp	Pro	Pro	Pro	Ser	NH ₂	
11 [15]	His	Gly	Glu	Phe	Thr	Ser	Glu	Leu	Met	Phe	Ile	Glu	Trp	Pro	Pro	Pro	Ser	NH ₂	
12 [16]	His	Gly	Glu	Phe	Thr	Ser	Asp	pgly	Met	Phe	Ile	Glu	Trp	Pro	Pro	Pro	Ser	NH ₂	
13 [17]	His	Gly	Glu	Phe	Thr	Ser	Asp	pgly	Leu	Phe	Ile	Glu	Phe	Pro	Pro	Pro	Ser	NH ₂	
14 [18]	His	Gly	Glu	Phe	Thr	Ser	Asp	Leu	pgly	Phe	Ile	Glu	Trp	Pro	Pro	Pro	Ser	NH ₂	

SSSD/54355. V01

FIGURE 8-2

Compound (SEQ. ID. NO.)	Xaa ₁	Xaa ₂	Xaa ₃	Xaa ₄	Xaa ₅	Xaa ₆	Xaa ₇	Xaa ₈	Xaa ₉	Xaa ₁₀	Xaa ₁₁	Xaa ₁₂	Xaa ₁₃	Xaa ₁₄	Xaa ₁₅	Xaa ₁₆	Xaa ₁₇	Xaa ₁₈	Z
15 [19]	His	Gly	Glu	Phe	Thr	Ser	Asp	Leu	pGly	Phe	Ile	Glu	Phe	Pro	Pro	Pro	Pro	Ser	NH ₂
16 [20]	His	Gly	Glu	Phe	Thr	Ser	Asp	Leu	Met	naph	Ile	Glu	Trp	Pro	Pro	Pro	Pro	Ser	NH ₂
17 [21]	His	Gly	Glu	Phe	Thr	Ser	Asp	Leu	Met	Phe	Val	Glu	Trp	Pro	Pro	Pro	Pro	Ser	NH ₂
18 [22]	His	Gly	Glu	Phe	Thr	Ser	Asp	Leu	Leu	Phe	Val	Glu	Phe	Pro	Pro	Pro	Pro	Ser	NH ₂
19 [23]	His	Gly	Glu	Phe	Thr	Ser	Asp	Leu	Met	Phe	tBuG	Glu	Trp	Pro	Pro	Pro	Pro	Ser	NH ₂
20 [24]	His	Gly	Glu	Phe	Thr	Ser	Asp	Leu	Leu	Phe	tBuG	Glu	Phe	Pro	Pro	Pro	Pro	Ser	NH ₂
21 [25]	His	Gly	Glu	Phe	Thr	Ser	Asp	Leu	Met	Phe	Ile	Asp	Trp	Pro	Pro	Pro	Pro	Ser	NH ₂
22 [26]	His	Ala	Glu	Phe	Thr	Ser	Asp	Leu	Leu	Phe	Ile	Glu	Phe	Pro	Pro	Pro	Pro	Ser	NH ₂
23 [27]	His	Gly	Glu	Phe	Thr	Ser	Asp	Leu	Met	Phe	Ile	Glu	Trp	tPro	tPro	tPro	tPro	Ser	NH ₂
24 [28]	His	Gly	Glu	Phe	Thr	Ser	Asp	Leu	Met	Phe	Ile	Glu	Trp	Pro	tPro	tPro	tPro	Ser	NH ₂
25 [29]	His	Gly	Glu	Phe	Thr	Ser	Asp	Leu	Met	Phe	Ile	G/u	Trp	hPro	hPro	hPro	hPro	Ser	NH ₂
26 [30]	His	Gly	Glu	Phe	Thr	Ser	Asp	Leu	Met	Phe	Ile	Glu	Trp	Pro	hPro	hPro	hPro	Ser	NH ₂
27 [31]	His	Gly	Glu	Phe	Thr	Ser	Asp	Leu	Leu	Phe	Ile	Glu	Phe	tPro	tPro	tPro	tPro	Ser	NH ₂
28 [32]	His	Gly	Glu	Phe	Thr	Ser	Asp	Leu	Leu	Phe	Ile	Glu	Phe	hPro	hPro	hPro	hPro	Ser	NH ₂
29 [33]	His	Gly	Glu	Phe	Thr	Ser	Asp	Leu	Met	Phe	Ile	Glu	Trp	MeAla	MeAla	MeAla	MeAla	Ser	NH ₂
30 [34]	His	Gly	Glu	Phe	Thr	Ser	Asp	Leu	Met	Phe	Ile	Glu	Trp	Pro	MeAla	MeAla	MeAla	Ser	NH ₂
31 [35]	His	Gly	Glu	Phe	Thr	Ser	Asp	Leu	Leu	Phe	Ile	Glu	Phe	MeAla	MeAla	MeAla	MeAla	Ser	NH ₂